| | Application No. | Applicant(s) | |
|---|---|--|--------------------------------|
| Notice of Allowability | '' | | |
| | 10/765,131 Examiner | IWATA ET AL. Art Unit | |
| | Nam T. Nguyen | 2824 | |
| The MAILING DATE of this communication app. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 | ears on the cover sheet with (OR REMAINS) CLOSED in (OR or other appropriate committed (IGHTS). This application is a sand MPEP 1308. | ith the correspondence add in this application. If not inclu- unication will be mailed in du subject to withdrawal from is: | ided ie course. THIS |
| 1. This communication is responsive to Request for Continue | ed Examination filed on 1/3/0 | <u>06</u> . | |
| 2. The allowed claim(s) is/are <u>1-31</u> . | | | |
| Acknowledgment is made of a claim for foreign priority u a) | e been received. e been received in Application | on No | cation from the |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | e a reply complying with the i | requirements |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv | | | NOTICE OF |
| CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftspers 1) hereto or 2) ito Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR seach sheet. Replacement sheet(s) should be labeled as such in a percentage of the paper of the paper | son's Patent Drawing Review 's Amendment / Comment of 1.84(c)) should be written on the header according to 37 CF sit of BIOLOGICAL MAT | r in the Office action of he drawings in the front (not t FR 1.121(d). ERIAL must be submitted | · |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 1/3/06 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material | 6. ☐ Interview S Paper No. 08), 7. ☐ Examiner's | Iformal Patent Application (Pummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for A T search. RICHARD ELMS | illowance |
| | ERVISORY PATENT EXAMINI ECHNOLOGY CENTER 2800 | ER | |

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05) Application/Control Number: 10/765,131

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DETAILED ACTION

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1. This is a response to the Request for Continued Examination (RCE) filed on 1/3/06.

REASONS FOR ALLOWANCE

2. Claims 1-31 are allowed.

The following is an examiner's statement of reasons for allowance:

There is no teaching or suggestion in the prior art to:

"a control circuit connected to the plurality of first and second write lines to control a dependence on temperature of a pulse width of at least one of the first write current and second write current" as claimed in the independent claim 1.

3. The following prior art, which is considered pertinent to applicant's disclosure although not relied upon, includes:

Perner (US. Pat. No. 6,865,104) or Ho et al. (Pub. No. US 2005/0128793) disclose write current MRAM similar to that of the present application, but fail to disclose the claimed limitations as described above.

The Japanese references JP 2003257175 and JP 2003173672 and JP2003109374 disclose similar memory device that include a current generator that

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generates a variable write current based on the temperature. However, none of these disclose a control circuit that control the dependency on temperature of a pulse width of at least one of a first write current and a second write current. It is noted that all the three references noted above detect the amplitude of the temperature and then generate a write current based on the temperature sensed, but none of the deal with the pulse width of the first write current and the second write current as claimed in claim 1 of the instant application.

- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nam T. Nguyen whose telephone number is (571) 272-1878. The examiner can normally be reached on 8 am to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nam T Nguyen Examiner Art Unit 2824

1/18/06